

FIG. 1

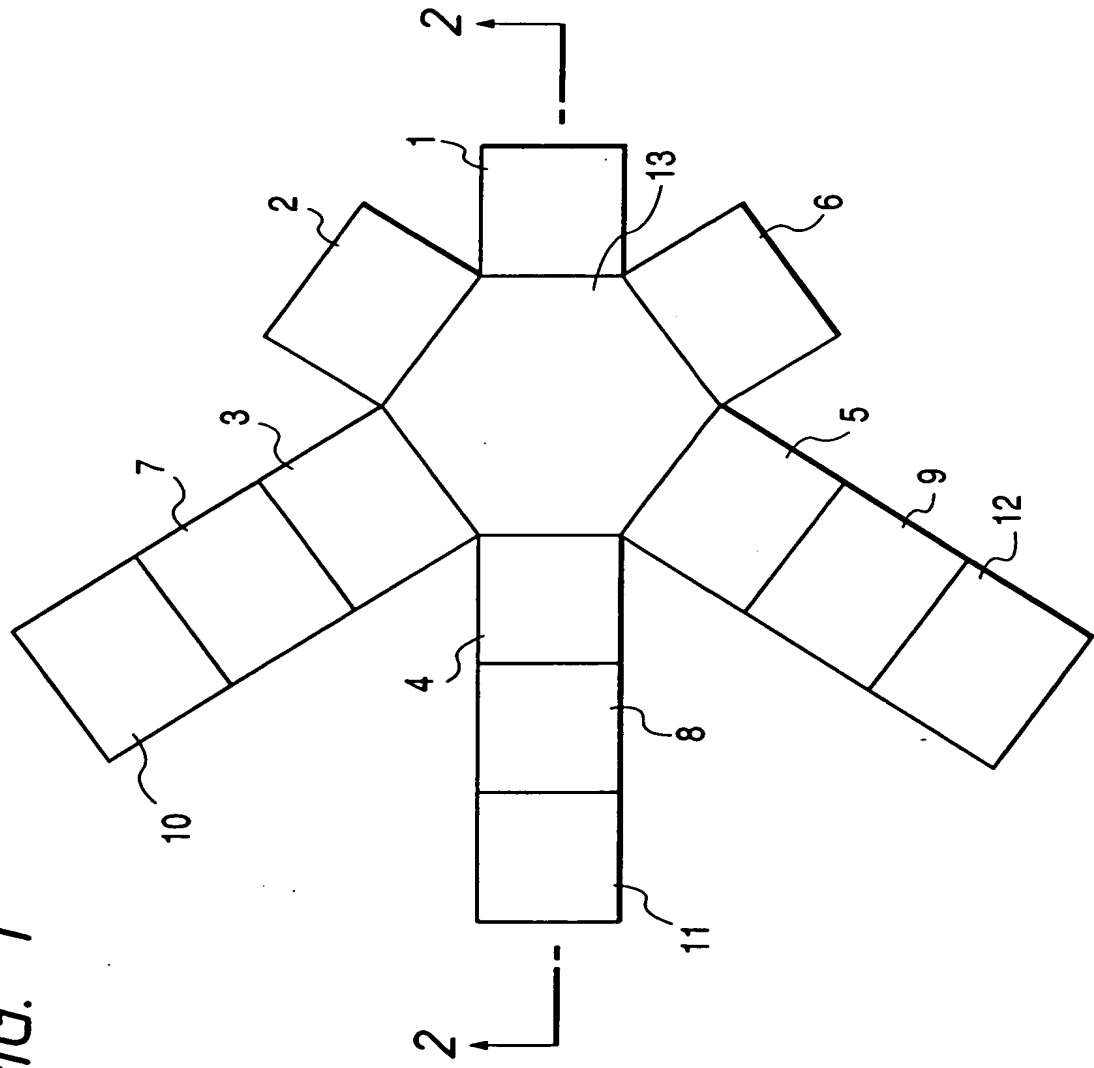


FIG. 2

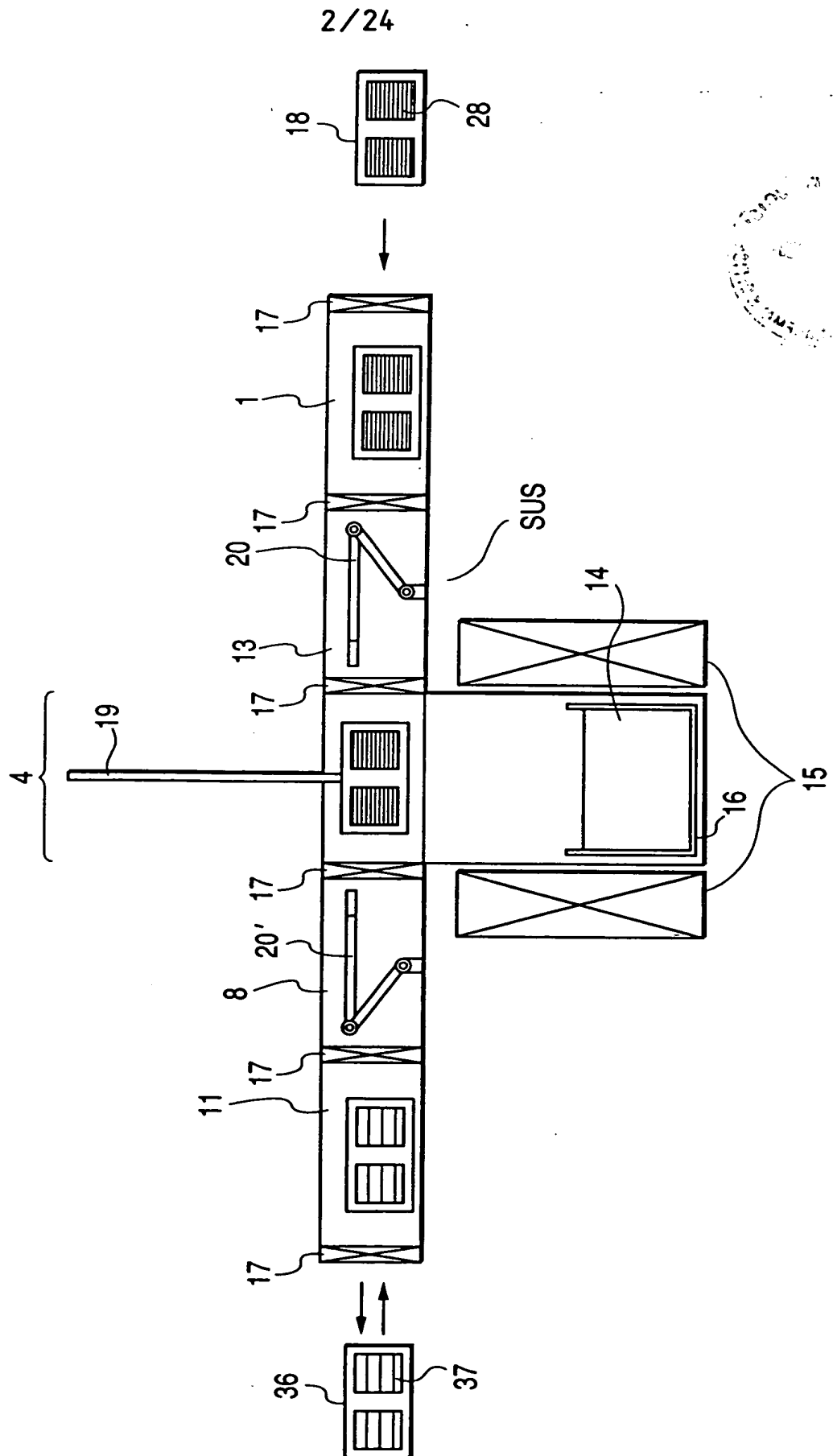


FIG. 3A

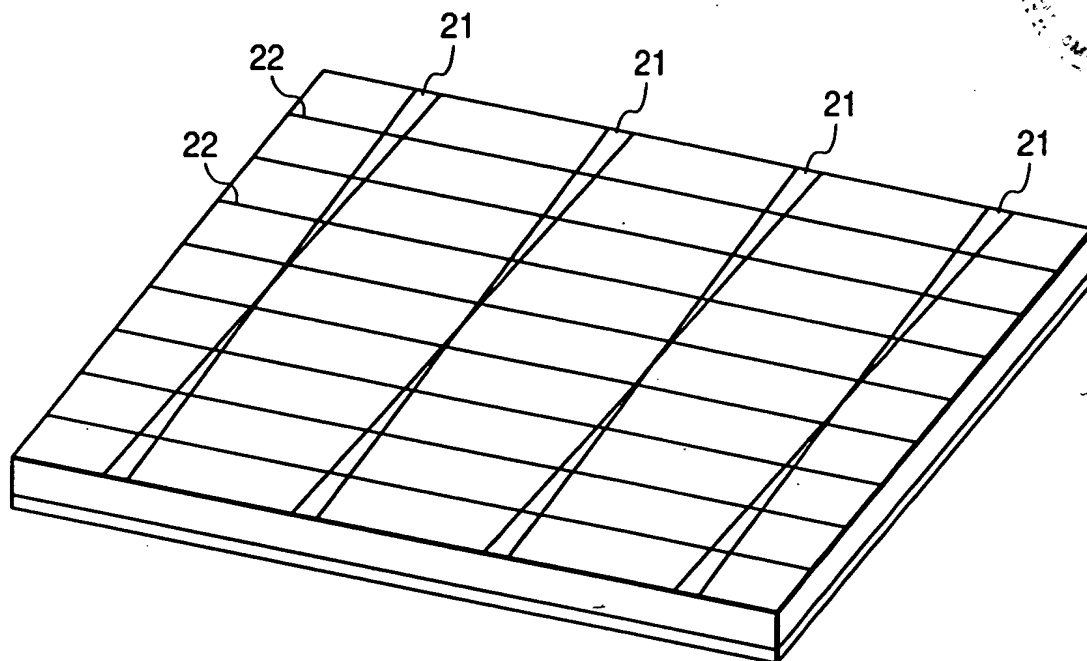


FIG. 3B

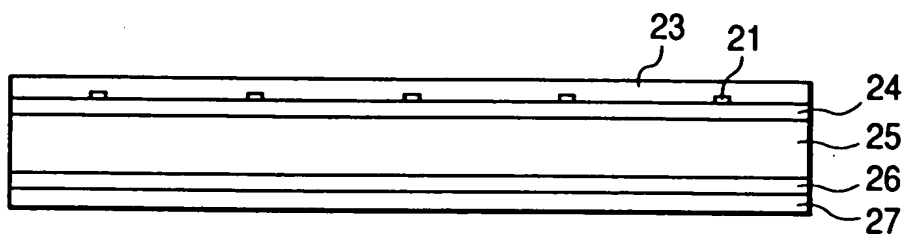


FIG. 4A

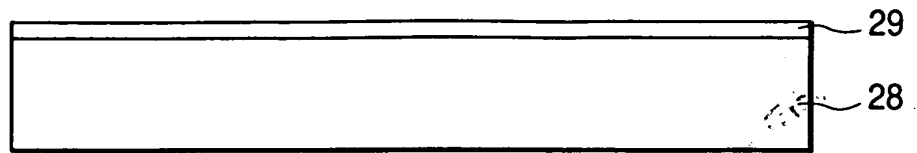


FIG. 4B

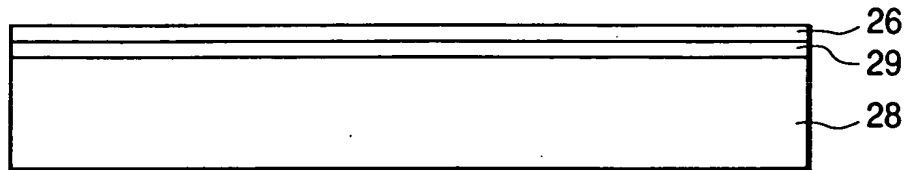


FIG. 4C

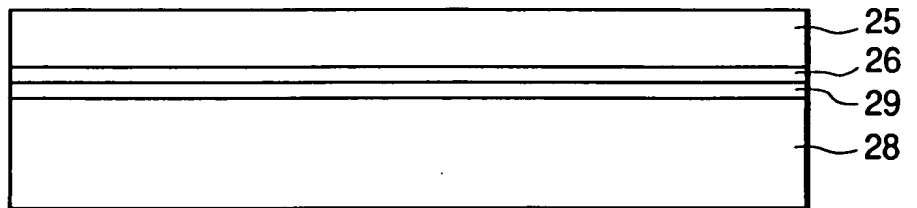


FIG. 4D

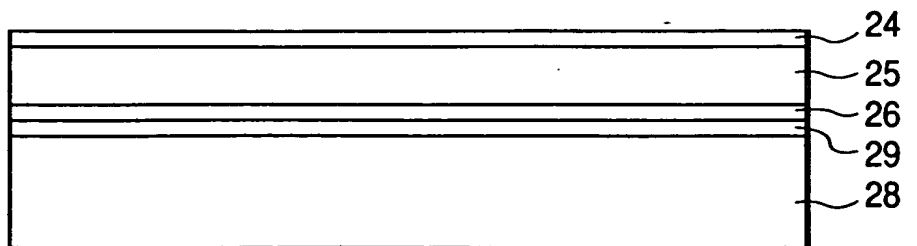


FIG. 4E

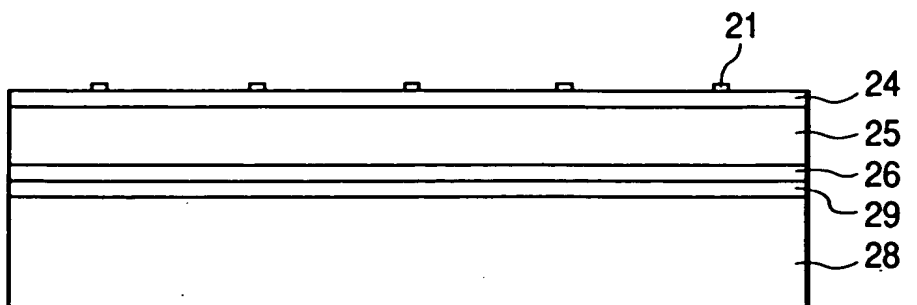


FIG. 5A

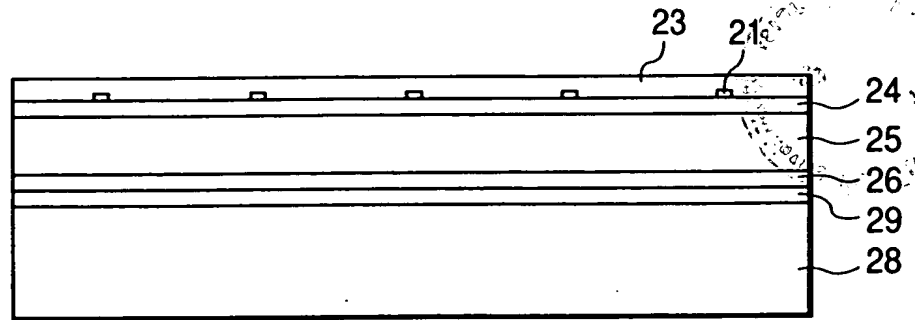


FIG. 5B

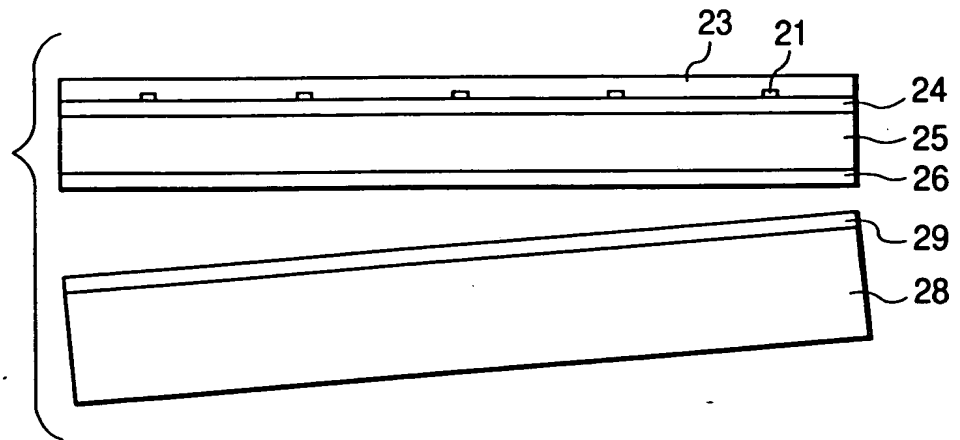


FIG. 5C

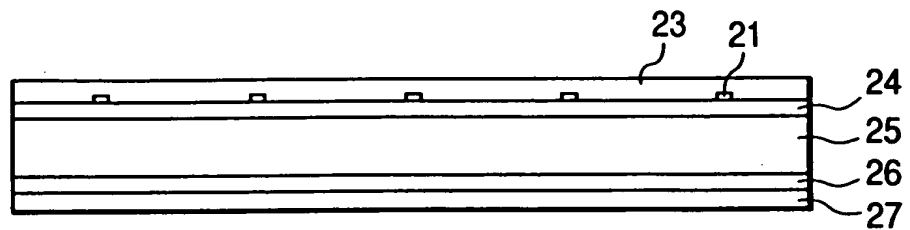


FIG. 6A

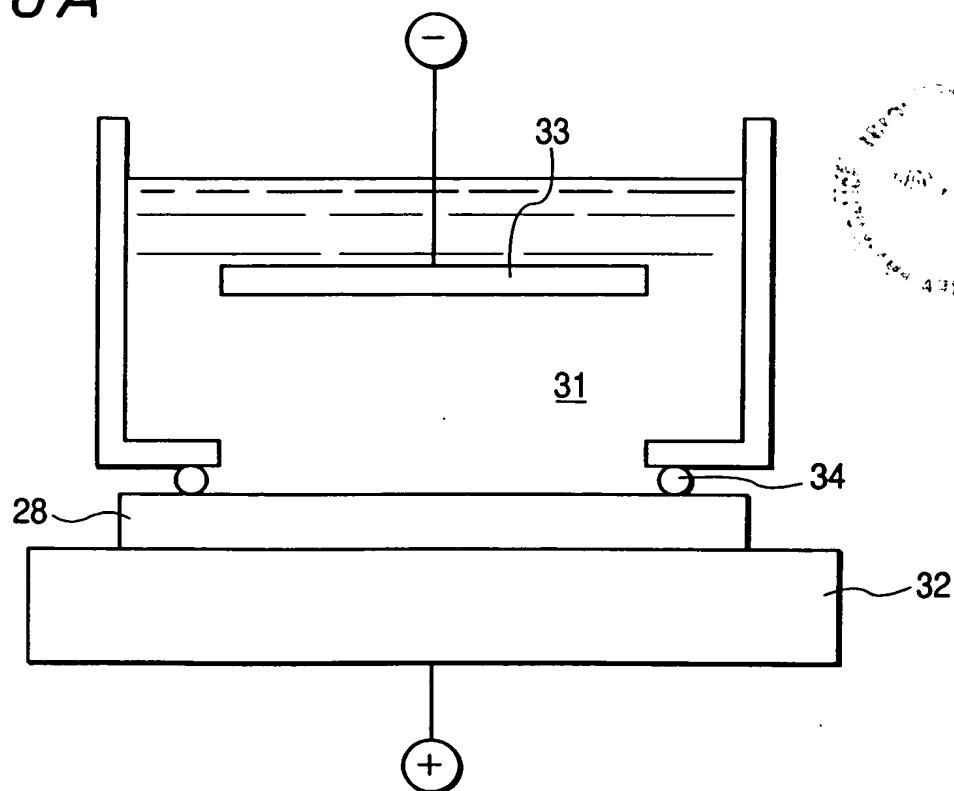


FIG. 6B

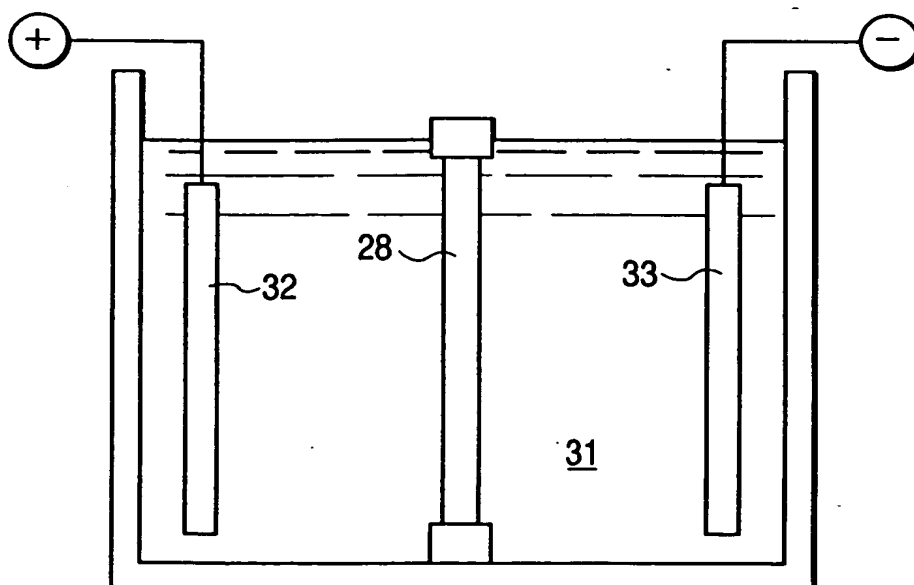


FIG. 7 THREE-CRUCIBLE LIQUID-PHASE GROWTH SYSTEM SEQUENCE (A: FIRST BATCH (B: SECOND BATCH))

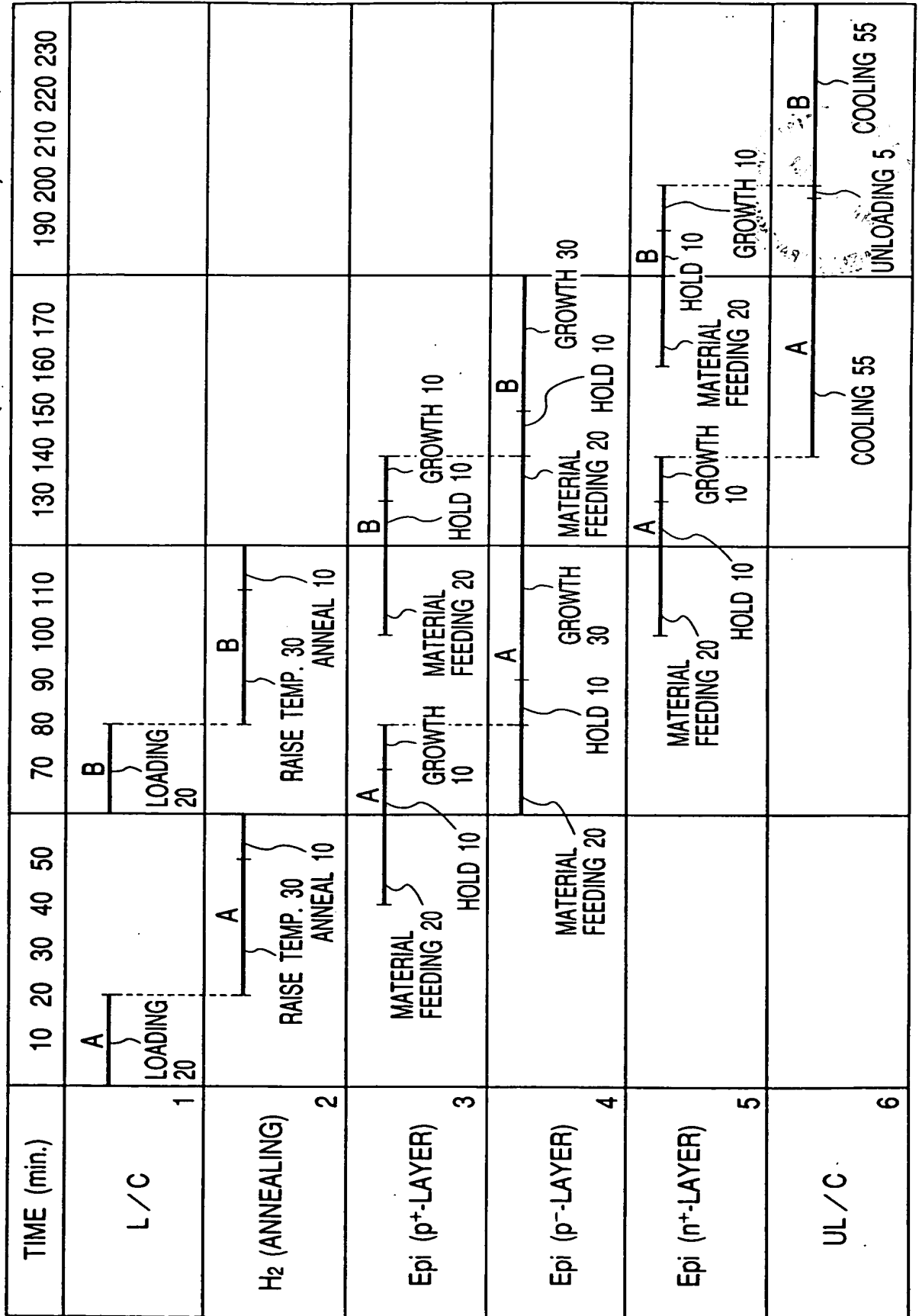


FIG. 8

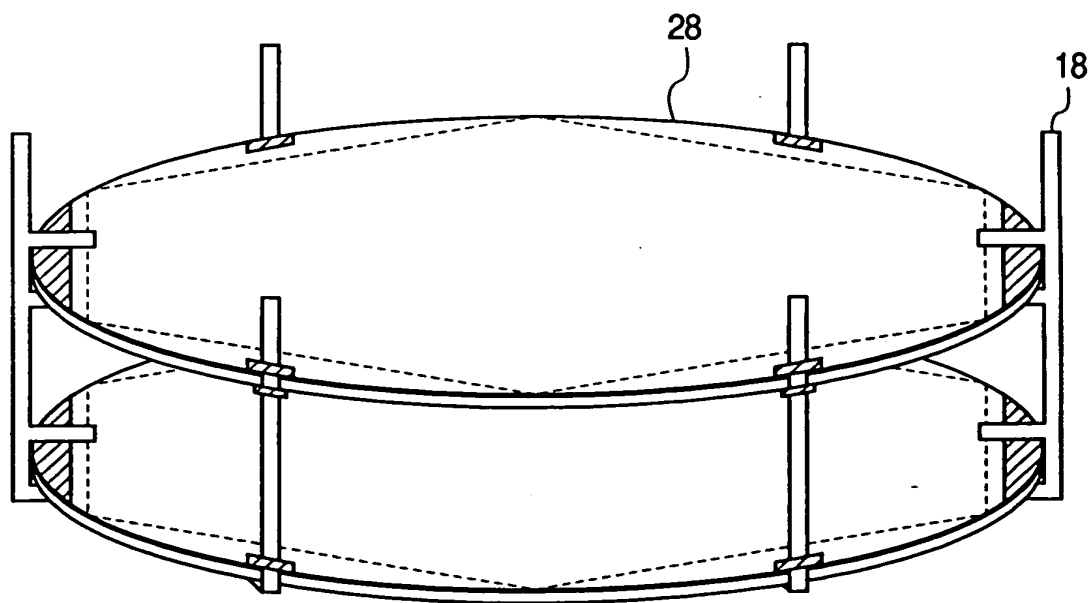


FIG. 9A

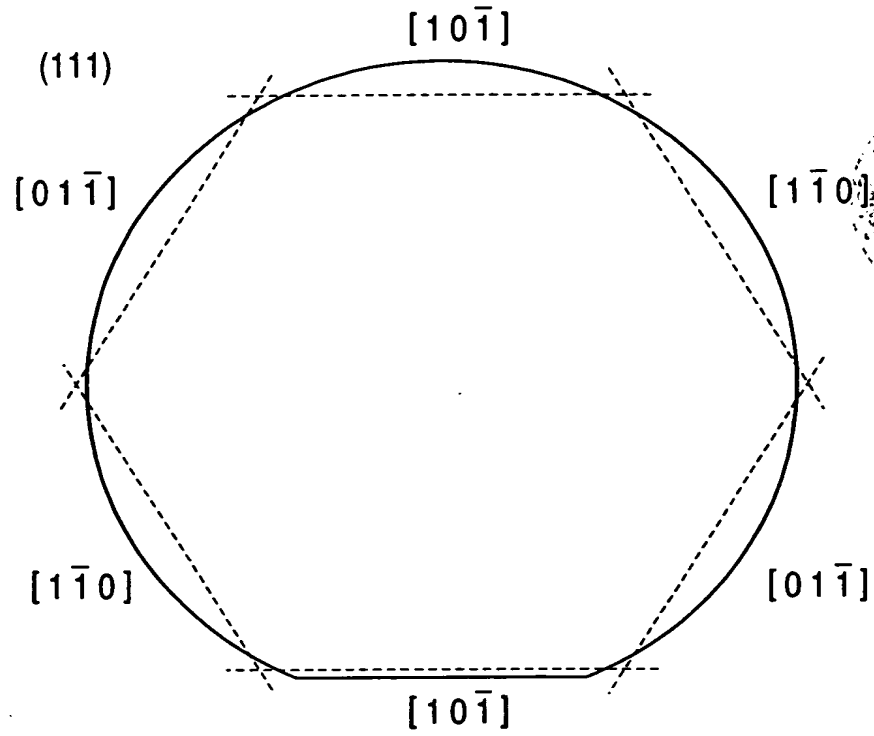


FIG. 9B

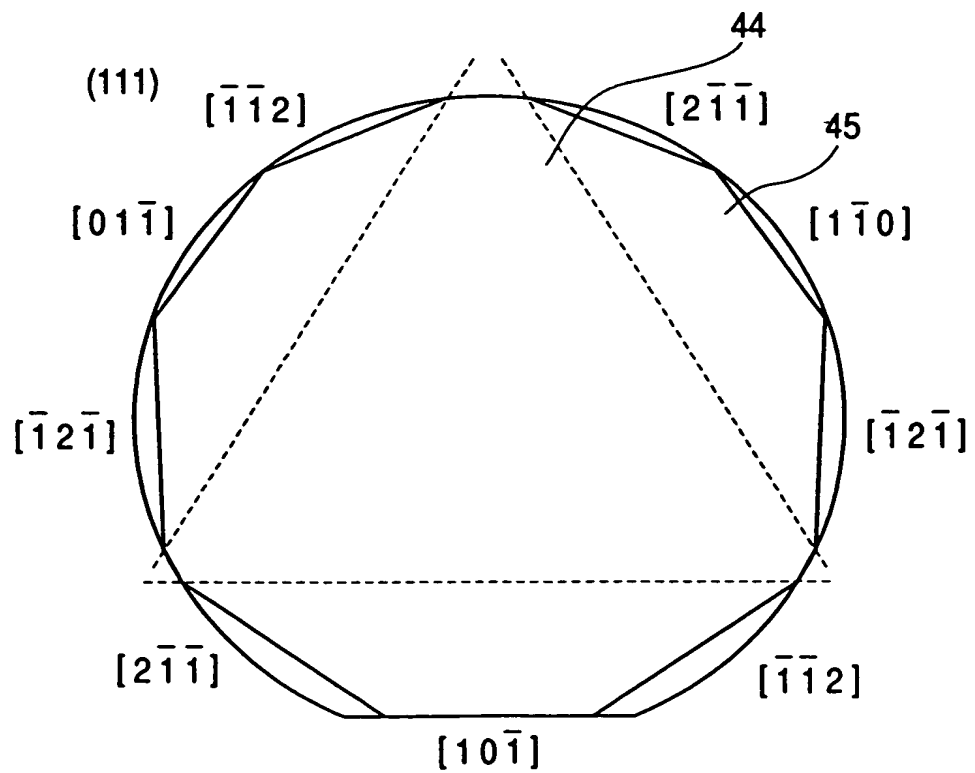


FIG. 10

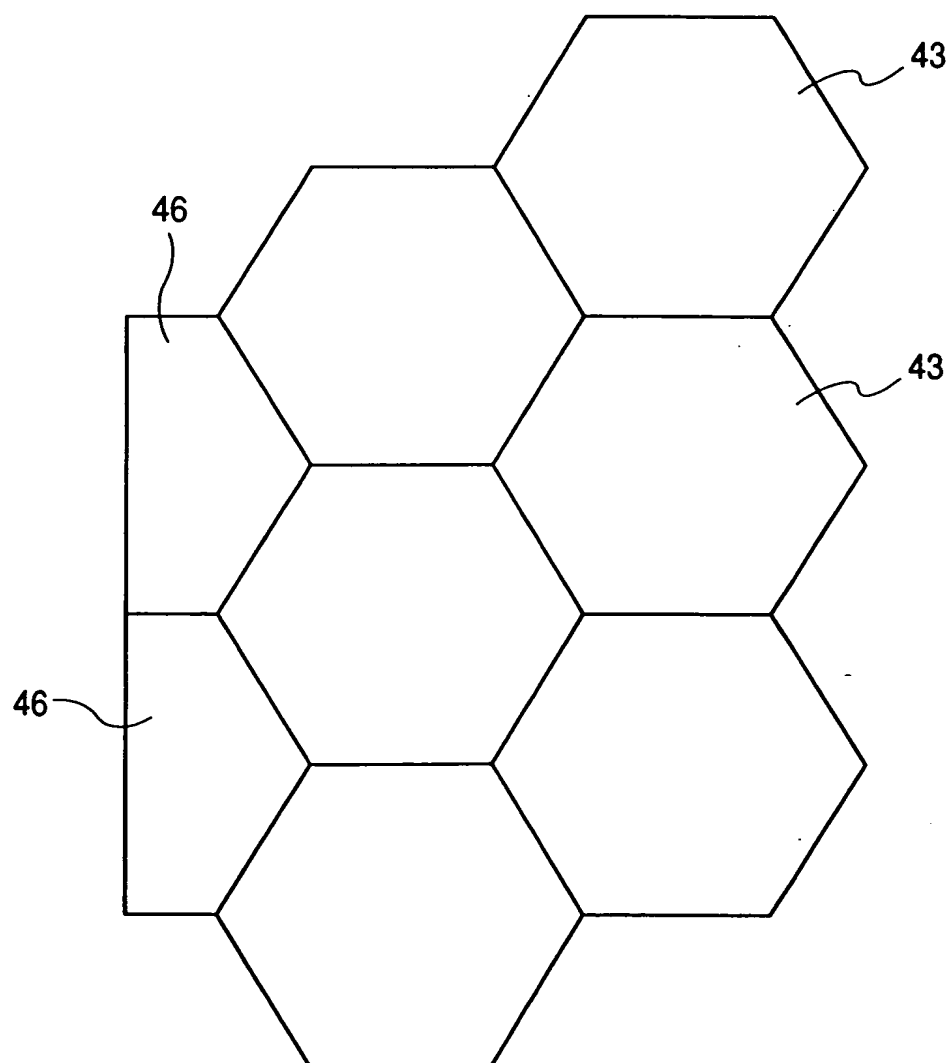


FIG. 11A

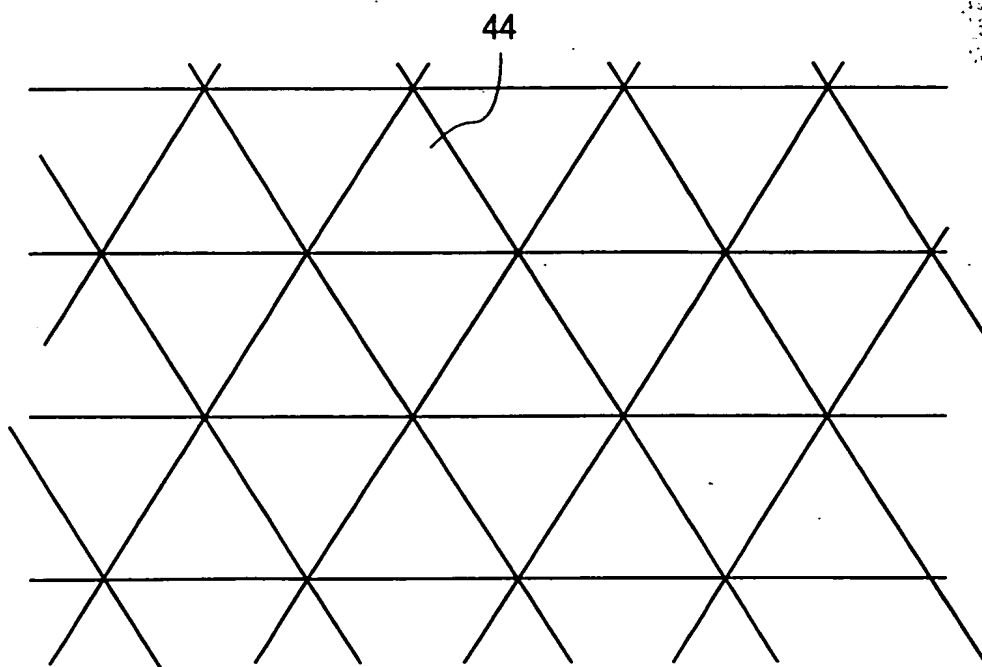


FIG. 11B

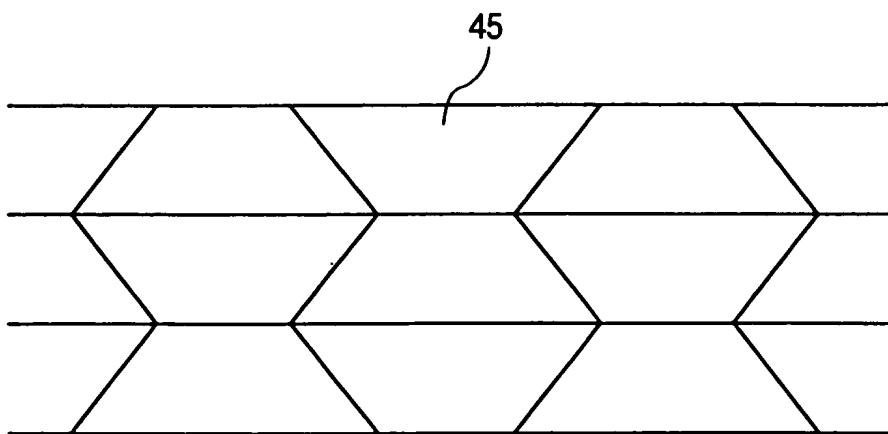


FIG. 12A

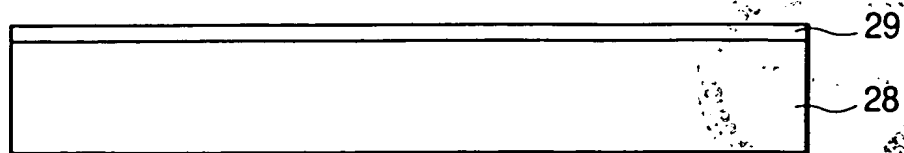


FIG. 12B

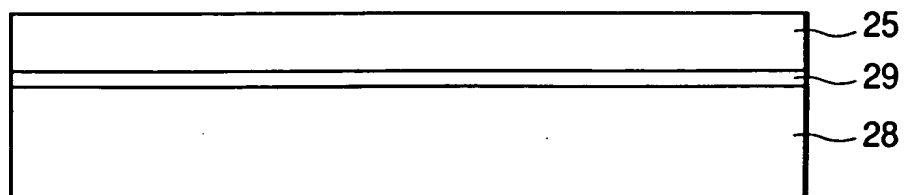


FIG. 12C

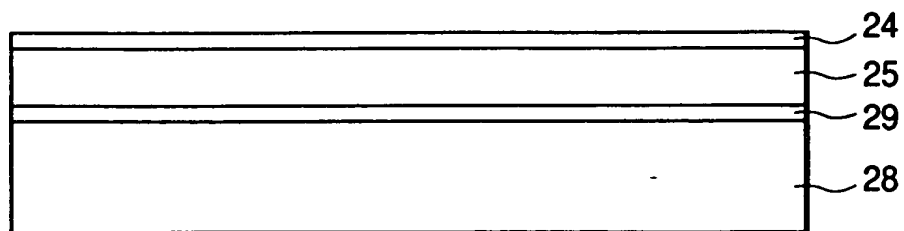


FIG. 12D

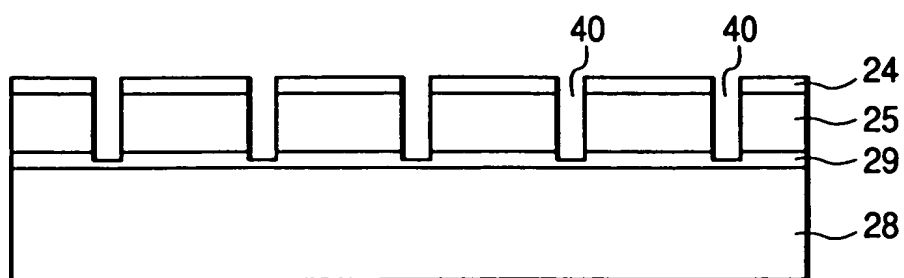


FIG. 13A

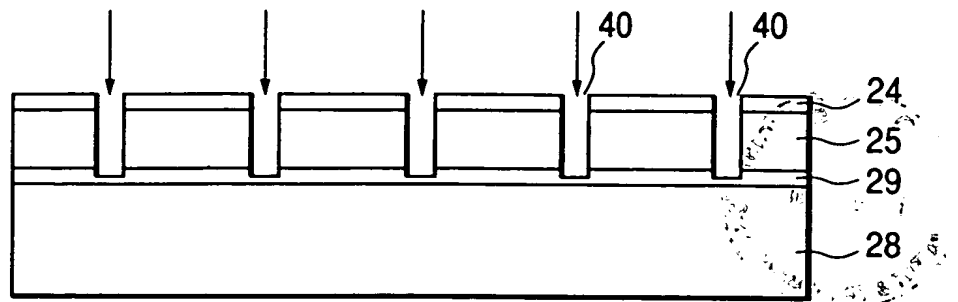


FIG. 13B

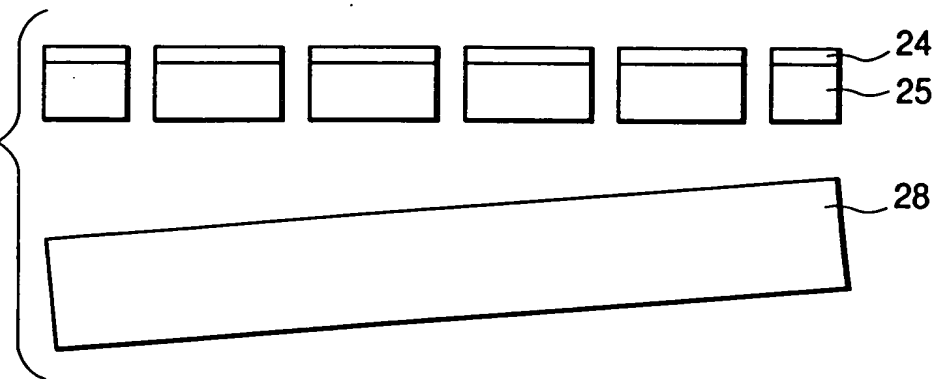


FIG. 13C



FIG. 13D

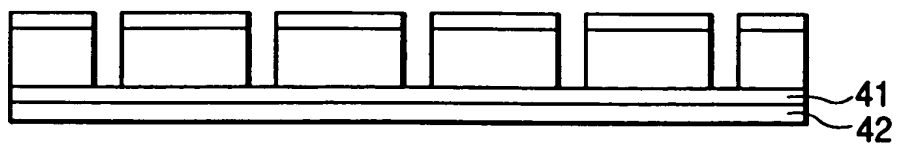


FIG. 13E

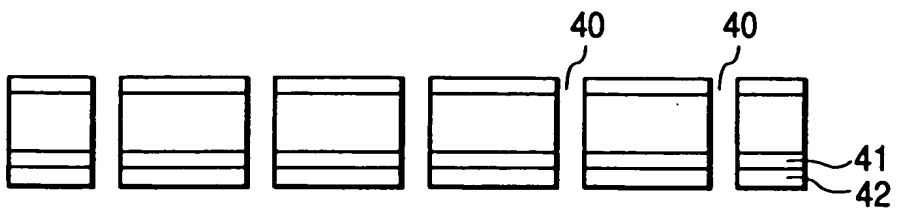


FIG. 14A

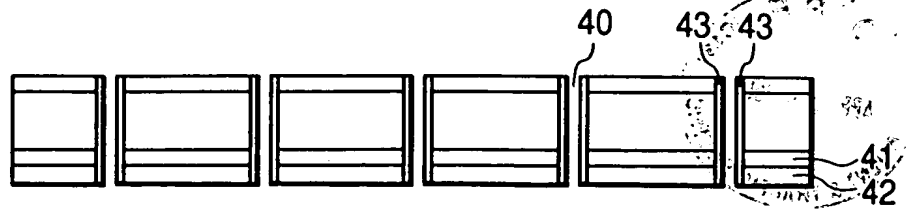


FIG. 14B

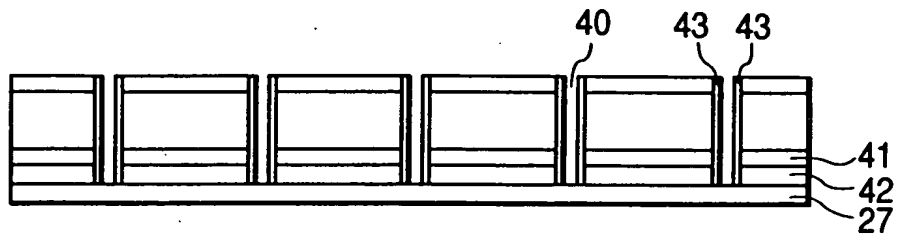


FIG. 14C

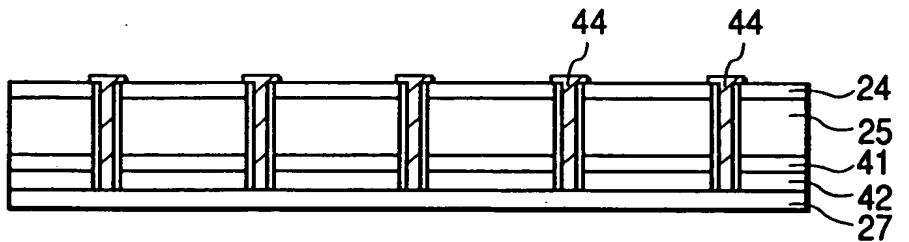


FIG. 14D

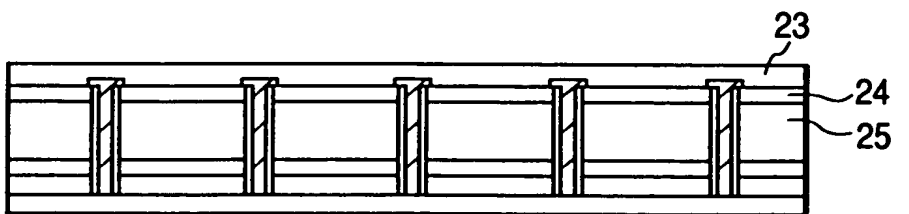


FIG. 15

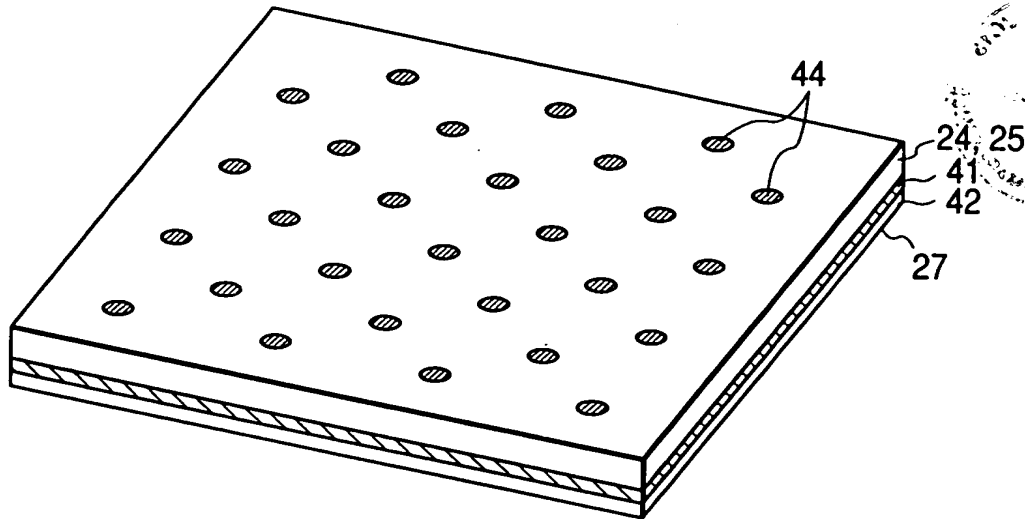


FIG. 16

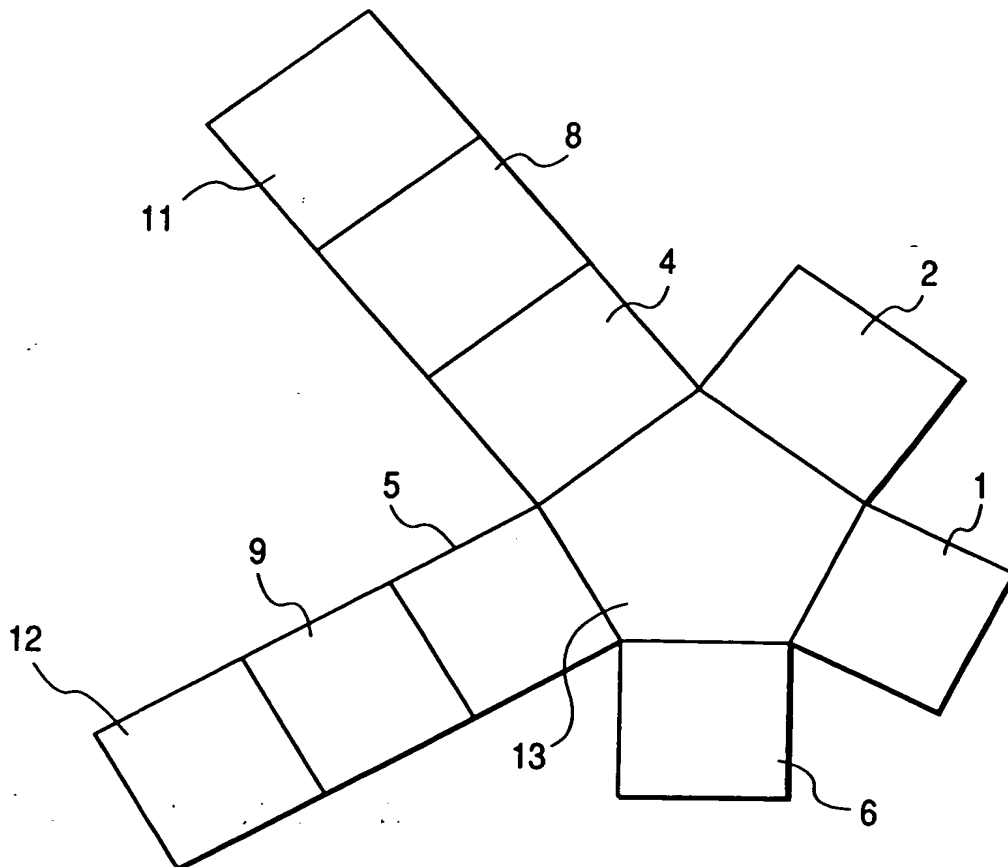


FIG. 17

TWO-CRUCIBLE LIQUID-PHASE GROWTH SYSTEM SEQUENCE

(A: FIRST BATCH)
(B: SECOND BATCH)

TIME (min.)	10	20	30	40	50	70	80	90	100	110	130	140	150	160	170	190	200	210	220	230
L / C																				
H ₂ (ANNEALING)																				
Epi (p ⁻ -LAYER)																				
Epi (n ⁺ -LAYER)																				
UL / C																				

FIG. 18

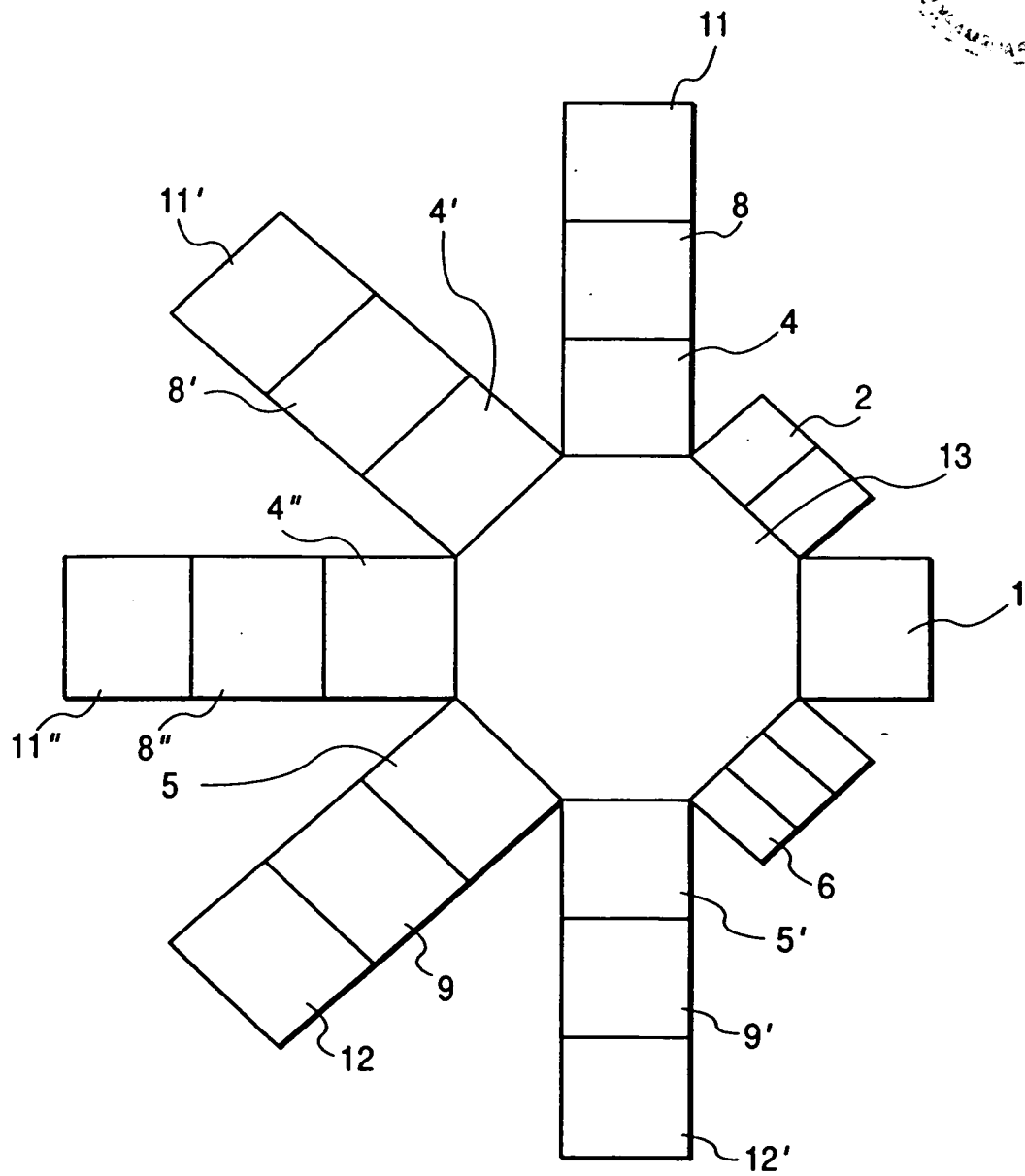


FIG. 19

FIG. 19A

FIVE-CRUCIBLE LIQUID-PHASE
GROWTH SYSTEM SEQUENCE

(A: FIRST BATCH
(B: SECOND BATCH)

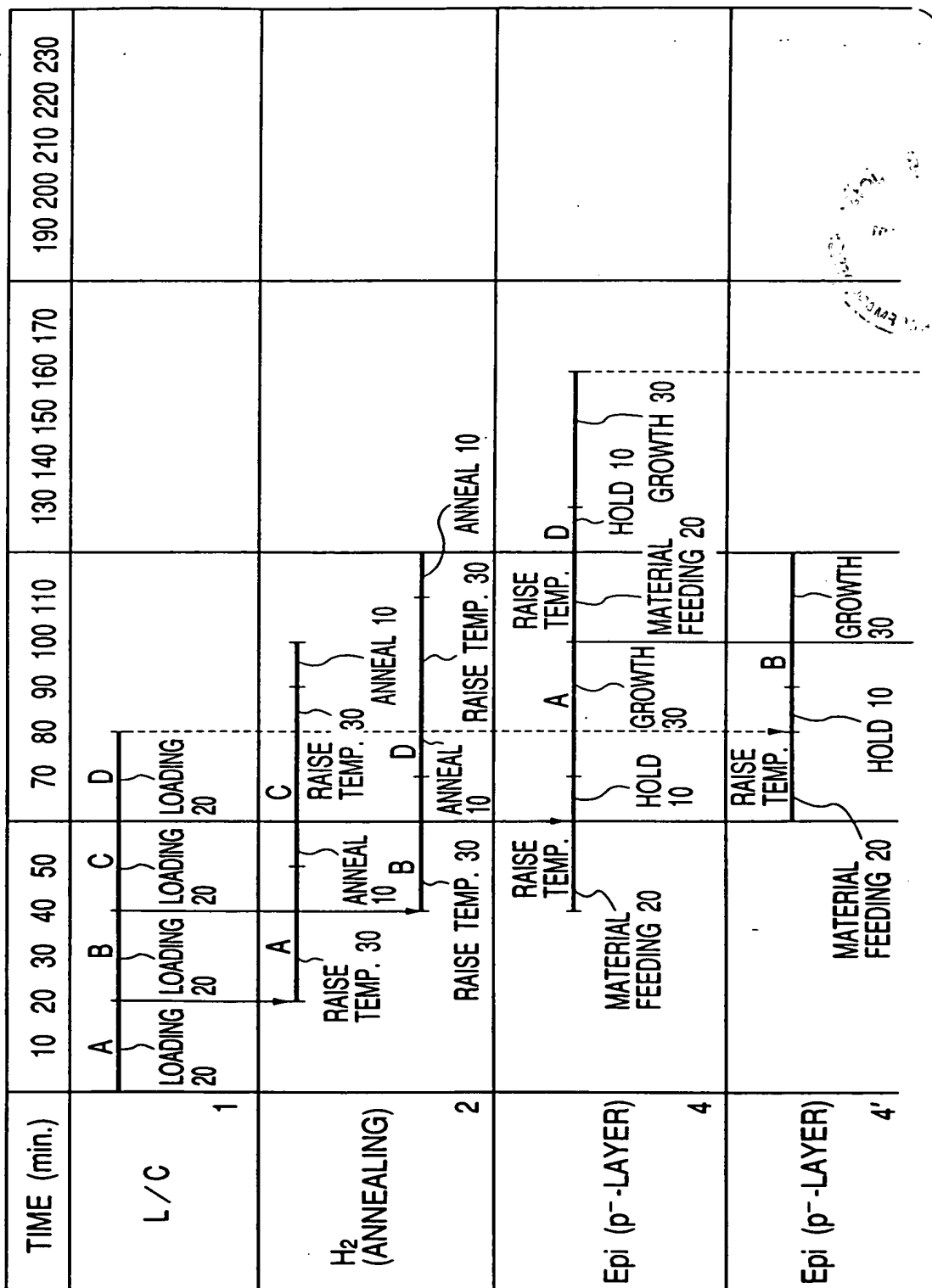


FIG. 19A

FIG. 19B

TO FIG. 19B

FIG. 19B

FROM FIG. 19A

Epi (p ⁻ -LAYER) 4"		RAISE TEMP. MATERIAL FEEDING 20 HOLD 10 GROWTH 30 C		
Epi (n ⁺ -LAYER) 5		RAISE TEMP. MATERIAL FEEDING 20 HOLD 10 GROWTH 10 A	RAISE TEMP. MATERIAL FEEDING 20 HOLD 10 GROWTH 10 C	
Epi (n ⁺ -LAYER) 5"		RAISE TEMP. MATERIAL FEEDING 20 HOLD 10 GROWTH 10 B	RAISE TEMP. GROWTH 10 HOLD 10 MATERIAL FEEDING 20 D	
UL/C 6			A COOLING 55 UNLOADING 5 B COOLING 55 UNLOADING 5 C COOLING 55 UNLOADING 5 D	

FIG. 20A

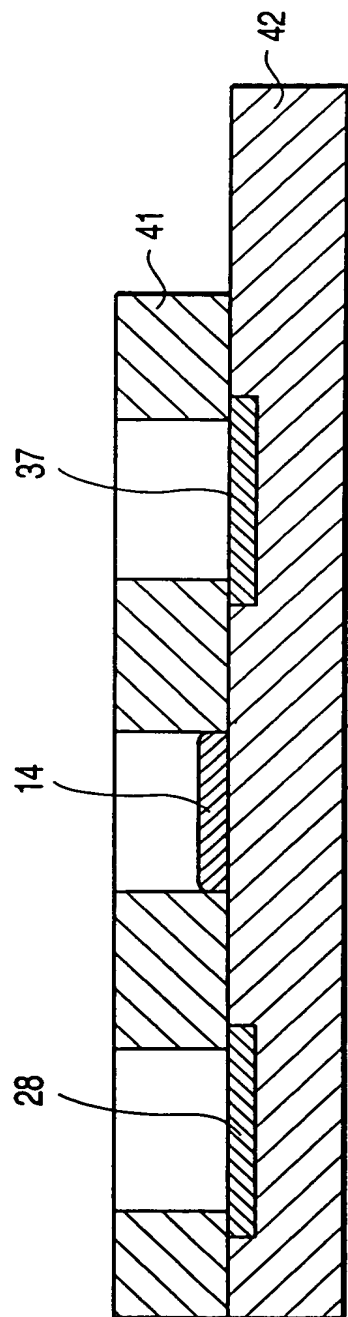


FIG. 20B

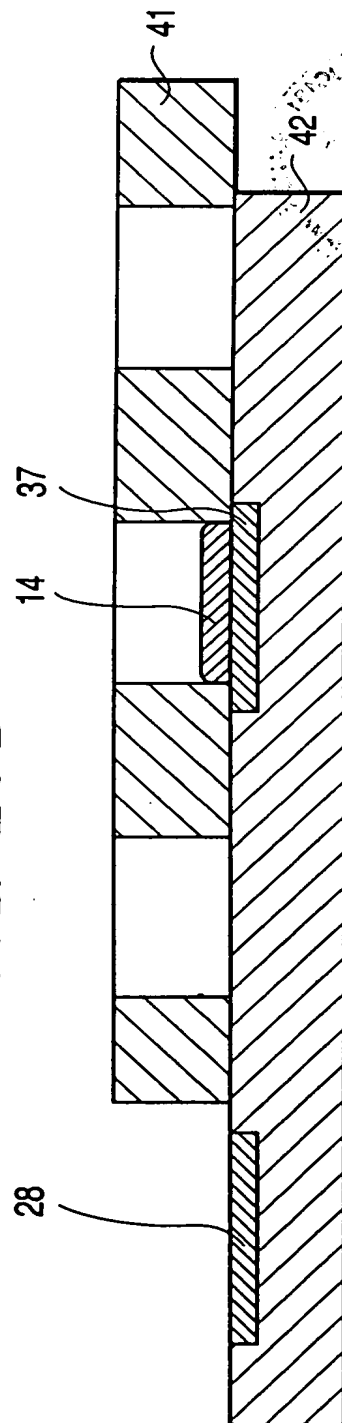


FIG. 21A

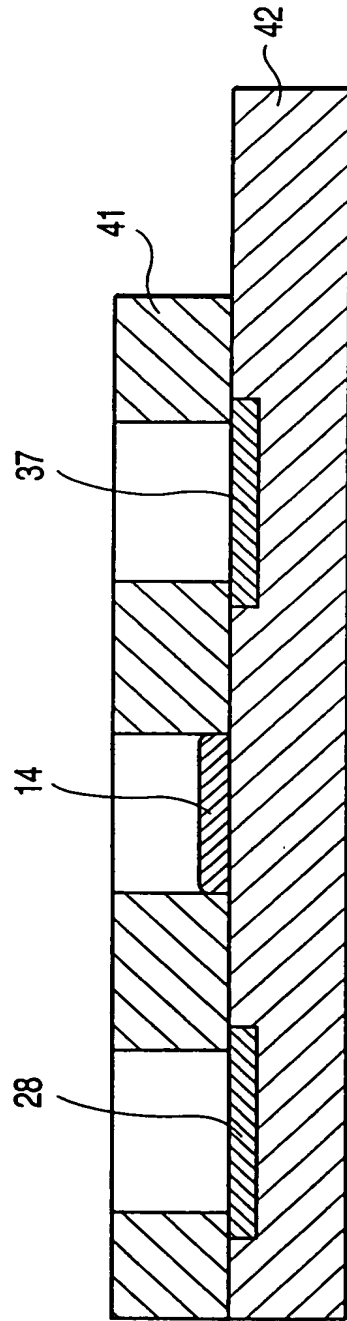


FIG. 21B

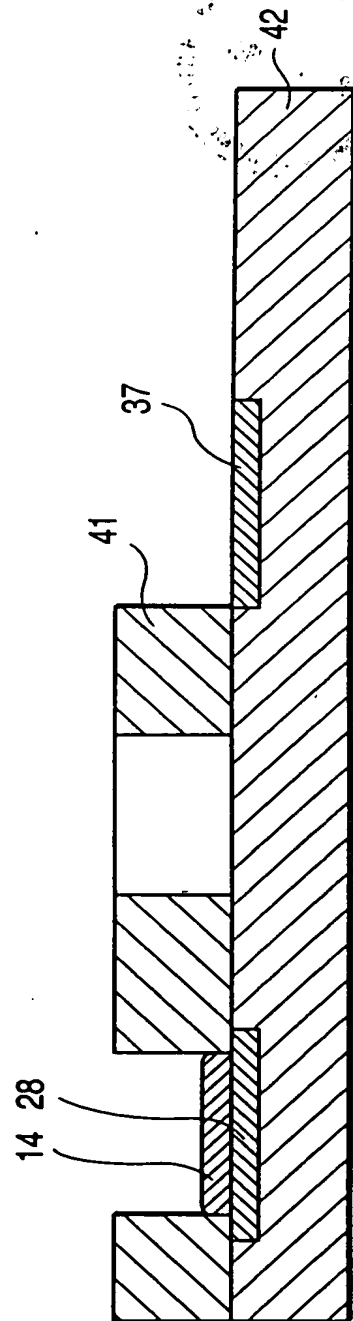


FIG. 22B

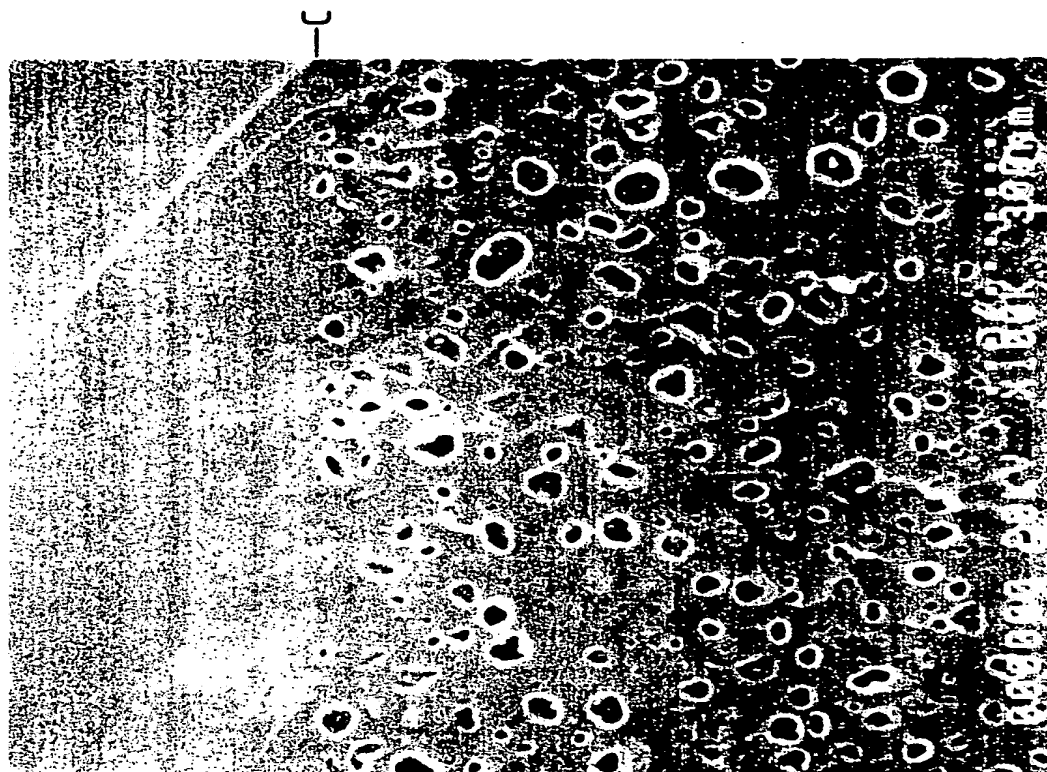


FIG. 22A

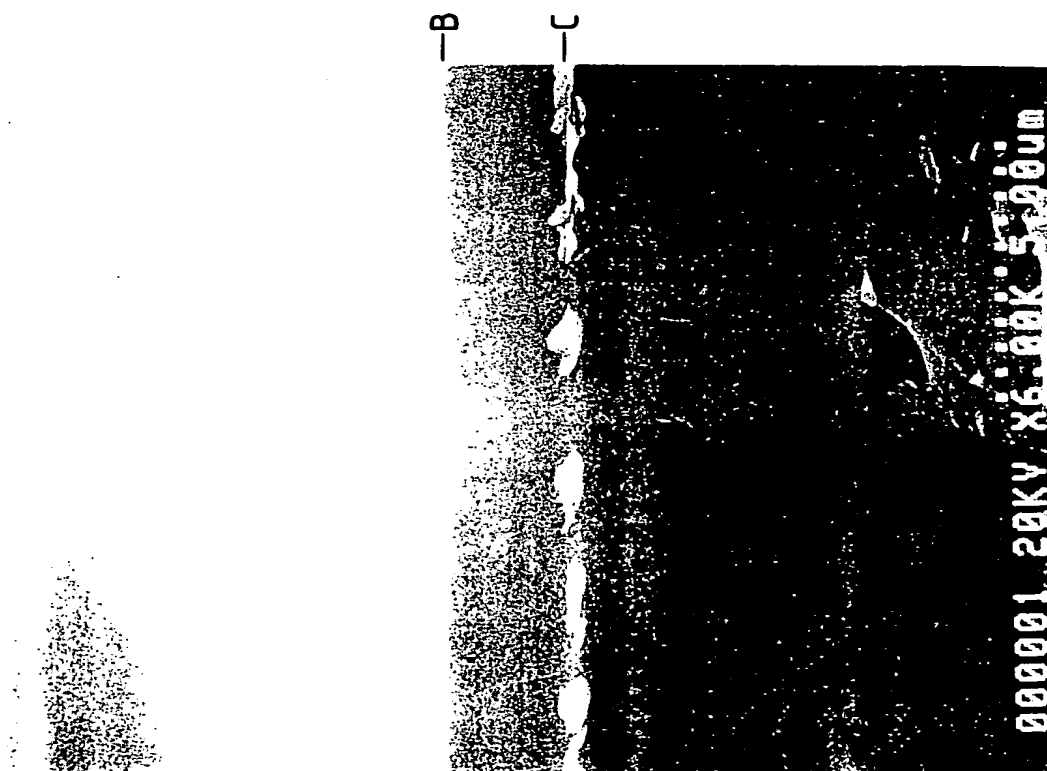


FIG. 23B

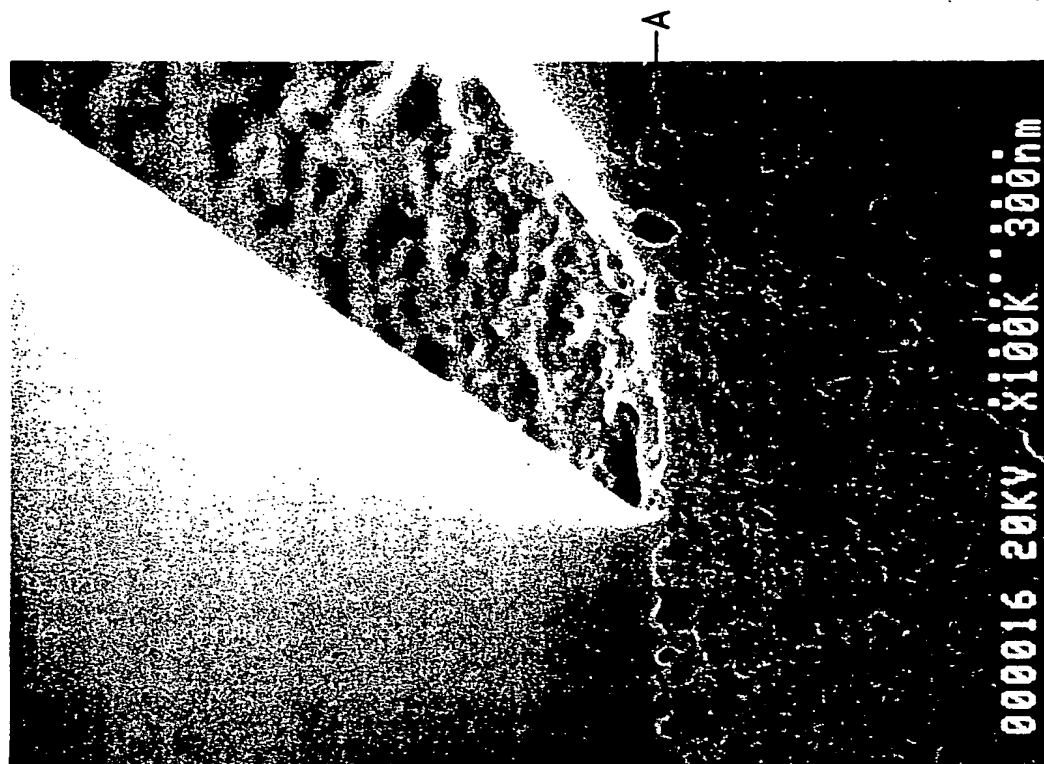


FIG. 23A

